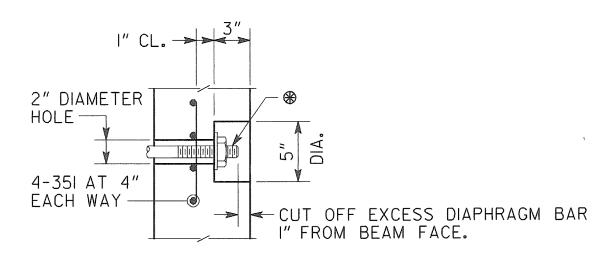


NOTES

I. BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND SHALL BE PICKED UP WITHIN 5'-6" FROM THEIR ENDS. DISREGARDING THIS REQUIREMENT COULD LEAD TO COLLAPSE OF THE BEAM. PICK-UPS SHALL BE EMBEDDED TO WITHIN 4" OF THE BOTTOM OF THE BEAM. DETAILS OF PICK-UPS SHALL BE INCLUDED IN THE SHOP DRAWINGS.

- 2. CHAMFER EDGES OF BEAMS $\frac{1}{2}$ " OR $\frac{3}{4}$ ".
- 3. HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE 1/8" EPOXY MORTAR AT EACH END. SHOP DRAWINGS SHALL ADJUST HORIZONTAL DIMENSIONS FOR GRADE AND FABRICATION EFFECTS SUCH AS SHRINKAGE AND ELASTIC SHORTENING.
- 4. AT $\mathbb Q$ BEARING, FORM A $1\frac{1}{2}$ " DIAMETER X 7" DEEP HOLE AT THE FIXED ENDS AND A 4" X $1\frac{1}{2}$ " X 7" DEEP SLOT AT THE EXPANSION ENDS FOR A $1\frac{1}{4}$ " DIAMETER SMOOTH DOWEL. SEE PLAN AND ELEVATION SHEET FOR LOCATION OF FIXED AND EXPANSION ENDS.
- 5. TOPS OF BEAMS SHALL BE ROUGH FLOATED AT APPROXIMATELY THE TIME OF INITIAL SET. ENTIRE TOP SHALL BE SCRUBBED TRANSVERSELY WITH A COARSE BRUSH TO REMOVE ALL LAITANCE AND TO PRODUCE A ROUGHENED SURFACE FOR BONDING TO THE SLAB. ROUGHENED SURFACE SHALL HAVE AN AMPLITUDE OF APPROXIMATELY 1/4". CONCRETE FINS OR PROJECTIONS SHALL BE REMOVED TO PRODUCE A VERTICAL FACE AT THE EDGE OF THE BEAM.
- 6. NON-COMPOSITE DEAD LOAD DEFLECTION (ΔNC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF THE SLAB AND COPING.
- 7. COMPOSITE DEAD LOAD DEFLECTION (ΔC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF SIDEWALK & PARAPET.
- 8. STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.
- 9. PRESTRESSING DATA IS AS FOLLOWS:
 - A. USE IO $\frac{1}{2}$ " DIAMETER SPECIAL LOW-RELAXATION (A = 0.167 SQ IN) STRANDS. PRETENSION STRANDS TO 33,818 LBS EACH.
 - B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (f_{ci}^{\prime}) OF 4,500 PSI.
 - C. THE TOTAL JACKING FORCE OF PRETENSIONING IS 338,180 LBS
 - D. THE NET PRESTRESSING FORCE OF THE STRANDS AFTER LOSSES IS 301,427 LBS SPAN 3A & 299,421 LBS SPAN 4A
- IO. CONCRETE STRENGTH (f_c) = 5,000 PSI.
- II. PSC BEAM ALLOWABLE TENSION = 424 PSI.



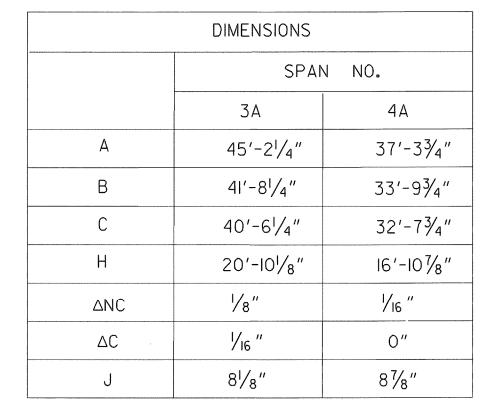
⊕ DIAPHRAGM BAR SHALL BE A I" DIAMETER PLAIN BAR, THREADED
5" ON EACH END, WITH 1/4" X 31/2" DIAMETER WASHERS AND HEX
NUTS (ASTM A 709 GRADE 36).

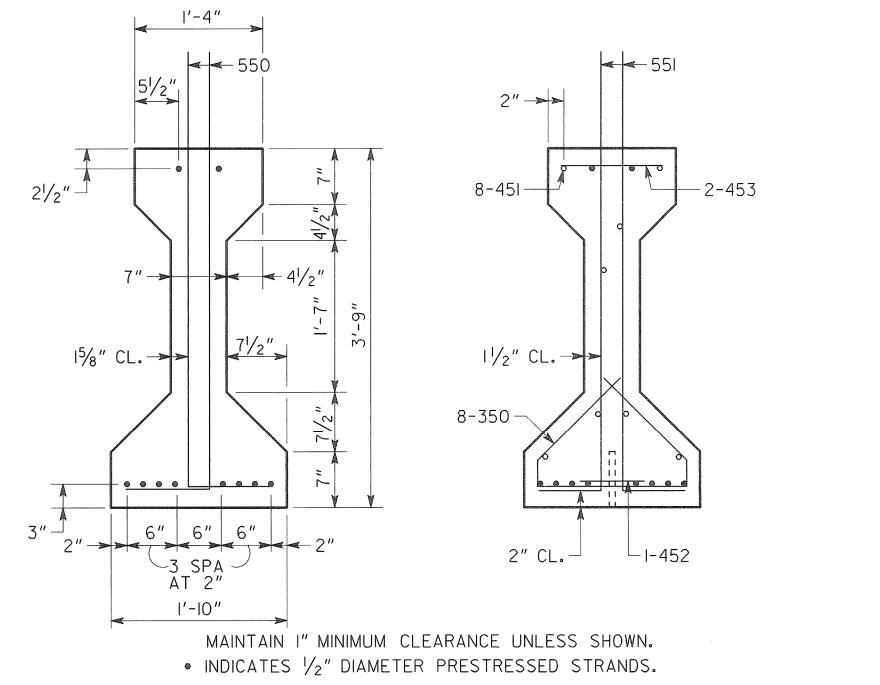
TIGHTEN DIAPHRAGM BAR AS PER SUB-SECTION 507.3.05.C OF THE GEORGIA DOT SPECIFICATIONS.

AFTER EXCESS DIAPHRAGM BAR HAS BEEN CUT OFF, PAINT DIAPHRAGM BAR, WASHER, AND NUT EXPOSED IN RECESS WITH SPECIAL PROTECTIVE COATING NO. 2 P AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. AFTER PAINTING, FILL THE RECESS WITH AN APPROVED EPOXY GROUT.

GALVANIZING OF THE DIAPHRAGM BAR AS PER SUB-SECTION 865.2.01.B.12 OF THE GEORGIA DOT SPECIFICATIONS IS NOT REQUIRED.

RECESS DETAIL FOR DIAPHRAGM BAR ENDS





PROJECT NUMBER

BHNLB-9073-00(016)

BRNLB-9073-00(018)

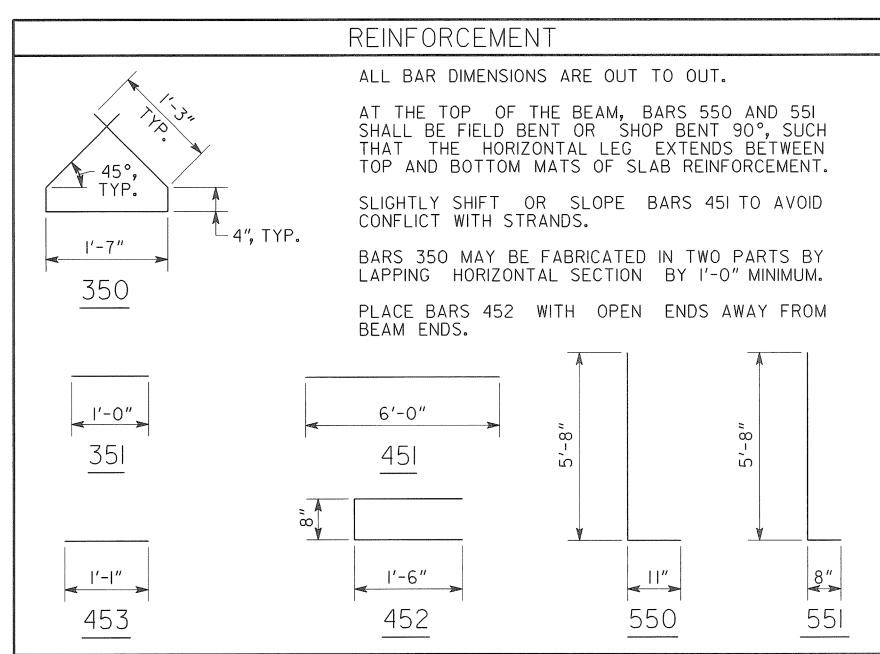
SECTION AT END

NO. SHEETS

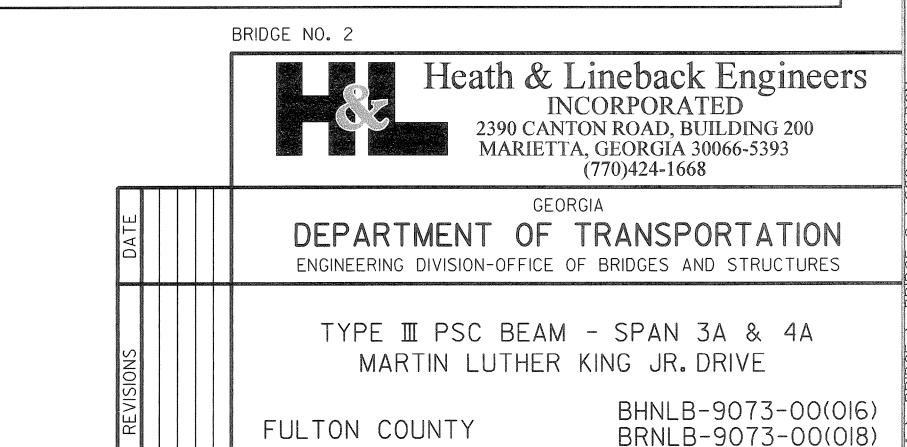
JULY 2013

REVIEWED WMD/DLC

APPROVED BFR



SECTION AT MIDPOINT



CHECKED RLF/MS

DESIGN GROUP SWW

NO SCALE

DESIGNED

KAK

DRAWING NO.

35 - 090

BRIDGE SHEET

11 OF 17